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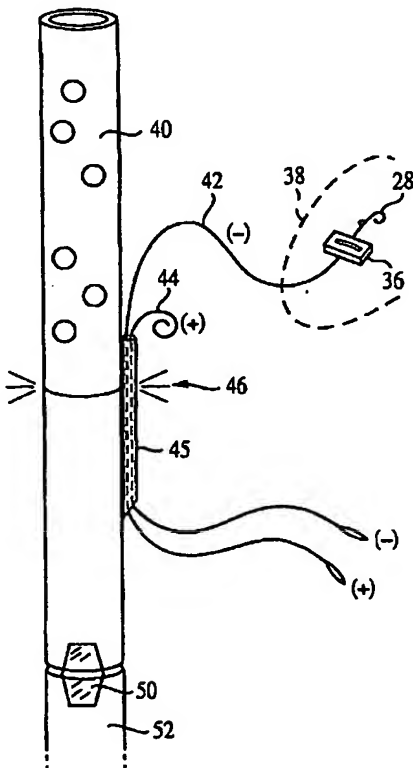
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[Continued on next page]

(54) Title: EPICARDIAL HEARTWIRE, CHEST TUBE WITH EPICARDIAL HEARTWIRE, AND METHOD OF USE



(57) Abstract: A heartwire (42) comprises a wire having a proximal end and a distal end, at least part of the distal end being conductive so as to be usable in heart stimulation; and attached to said distal end, an end structure (28) adapted for noninvasively maintaining the distal end in position adjacent the heart. The end structure may comprise an irregular or three-dimensional, atraumatic structure adapted for engaging a surgical material such as pledget secured to the heart, for maintaining said heartwire in position. The end structure may comprise at least one of a pigtail, a hook, a tine and a suture. A second wire (44) may be used for bipolar stimulation. The heartwire may be combined with a chest tube (40), and may be removable therefrom while still maintaining its position relative to the heart.

WO 2004/043518 A3



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/35875

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61N 1/05

US CL : 607/126

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 607/126, 116, 119, 125, 129, 149; 128/898; 439/909

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,256,543 B1 (SPENCE) 03 July 2001 (03.07.2001), See entire document.	1, 2, 8, 11, 31
Y		3-7, 9, 10, 12-30, 32
Y	US 6,231,514 B1 (LOWE et al.) 15 May 2001 (15.05.2001), See entire document, especially col. 11, lines 1-21 and 66-67, col. 12, lines 1-35 and Fig. 17.	16-30 and 32

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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document member of the same patent family

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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

EAST

search terms: temporary pacing, wire, chest, drainage, pledget, anesthesia, suture, catheter.